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APPLICATION NO.			82771.P279	3304
09/222,340	12/28/1998	WILLIAM F. TERRELL	02//1.12//	
8791	7590 04/19/2007	EXAMINER		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR ' LOS ANGELES, CA 90025-1030			MANIWANG, JOSEPH R	
			· ART UNIT	PAPER NUMBER
			2144	
			an write	DV MODE
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
	ONTHS	04/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	09/222,340	TERRELL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joseph R. Maniwang	2144				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 						
Status						
1) Responsive to communication(s) filed on 29 January 2007.						
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		·				
4)⊠ Claim(s) <u>1-14 and 16-26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14 and 16-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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·						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	· ·				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date 5) Notice of Informal Patent Application					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)	atent Application				
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DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

- 2. Claims 1-11, 13, 14, and 16-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lakshman et al. (U.S. Patent No. 6,341,130), hereinafter referred to as Lakshman, in view of Barzilai et al. ("Design and Implementation of an RSVP-Based Quality of Service Architecture for an Integrated Services Internet", 1998), hereinafter referred to as Barzilai, and in further view of Gai et al. (U.S. Pat. No. 6,651,101), hereinafter referred to as Gai.
- 3. Regarding claim 1, Lakshman discloses the invention substantially as claimed. Lakshman discloses an apparatus adapted to facilitate communications between a client device and a remote device, comprising a network interface including (i) filters including at least one filter being triggered to denote when a received packet satisfies filter criteria corresponding to an admission policy (filter rules) related to differentiated service levels and associated with the at least one filter [see Lakshman, Col. 1, lines 53-67, Col. 2, lines 1-34, Col. 3, lines 53-55, Col. 6, lines 15-19, Col. 9, lines 20-29] and (ii) a classifier, communicatively coupled to the filters, to classify and mark one of the service levels associates with the received data packet in response to satisfying the filter criteria associated with the at least one filter [see Lakshman, Col. 53-67]; and a

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controller [see Lakshman, Figure, 1, item 245]. However, Lakshman does not explicitly disclose a controller coupled to the network interface, to dynamically create and remove the filters controlling access to the different service levels based, at least in part, on an admission profile of the admission policy.

- 4. In the same field of endeavor, Barzilai discloses (e.g., a system for traffic policing, traffic shaping and buffer management for QOS support). Barzilai discloses and a controller coupled to the network interface, to dynamically create and remove the filters controlling access to the different service levels based, at least in part, on an admissions profile (Barzilai teaches the QOS manager functions a control plane component primarily responsible for the creation, modification, and removal of reservation filters associated with different flows as well as admission control. Also, Barzilai teaches the improvement of statically compiled packet filter by utilizing a general classifier for real-time packet forwarding and packet filters that provide general and flexible classification of incoming packets to application endpoints and dynamic code generation techniques that are applied to realized very efficient packet filters), [see Barzilai, page 400, 2nd column, 4th paragraph, page 411, 2nd column, 2nd paragraph].
- 5. Accordingly, it would have been obvious to one of ordinary skill in the networking art at the time the invention was made to have incorporated Barzilai teaches of a system for traffic policing, traffic shaping and buffer management for QOS support with the teachings of Lakshman, for the purpose of providing a system that supports integrated services on the Internet, network routers as well as end hosts in order to further enhance classification of traffic and to handle data packets from different flows

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as well as having a system that fully supports TCP/IP stack [see Barzilai, page 397, column 2]. However, the specific of dynamic code generation in regards to dynamic filtering are not explicitly discloses by Lakeshman-Barzilai.

- 6. In the same field of endeavor, Gai discloses a method and system for identifying specific traffic flows and for applying quality of service treatments to such flows (e.g., dynamic filtering) [see abstract, sections 1, 2.1 and 3.1].
- Accordingly, it would have been obvious to one of ordinary skill in the networking art at the time the invention was made to have incorporated Gai's teachings of dynamic code generation for the creation of dynamic filtering with the teachings of Lakshman-Barzalai, for the purpose of providing an improvement on traditional packet filtering, through the use of dynamic code generation [see Gai, abstract]. Barzalai provides motivation to combine by stating the uses of dynamic code generation techniques that are applied provide for very efficient packet filtering [see Barzalia, pg. 411]. By this rationale claim 1 is rejected.
- 8. Regarding claim 2, Lakshman-Barzilai and Gai further discloses wherein the at least one filter, when triggered, initiate an admission control decision preventing allocation of service level resources which are not yet required or authorized [see Barzilai, page 410, 2nd paragraph]. The same motivation that was utilized in the combination of claim 1 applies equally as well to claim 2. By this rationale claim 2 is rejected.
- 9. Regarding claim 3, Lakshman-Barzilai and Gai further discloses wherein each filter is triggered by information contained within received the data packet (Barzilai

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teaches that the address is used during data transfer to efficiently identify the reservation structure to use for policing and shaping traffic on a particular data socket), [see Barzilai, Page 404, 1st Col., 2nd paragraph]. The same motivation that was utilized in the combination of claims 1 and 2 applies equally as well to claim 3. By this rationale claim 3 is rejected.

- Regarding claim 4, Lakshman-Barzilai and Gai further discloses wherein each filter is triggered by one or both of packet source information and packet destination information [see Lakshman, Col. 2, lines 10-14]. By this rationale claim 4 is rejected.
- 11. Regarding claim 5, Lakshman-Barzilai and Gai discloses the invention substantially as claimed. However, Lakshman-Barzilai does not explicitly disclose wherein the admission profile is stored in a communicatively coupled remote device.
- 12. In the same field of endeavor, Gai discloses (e.g., identifying network data traffic flows and for applying quality of service treatments to the flows). Gai discloses wherein the admission profile is stored in a communicatively coupled remote device [see Gai, Col. 12, lines 25-50 and Col. 15, lines 59-64].
- Accordingly, it would have been obvious to one of ordinary skill in the networking art at the time the invention was made to have incorporated Gai's teachings of identifying network data traffic flows and for applying quality of service treatments to the flows with the teachings of Lakshman-Barzilai, for the purpose of obtaining traffic policies to be applied to identified traffic flows [see Gai, Col. 4, lines 26-65]. By this rationale claim 5 is rejected.

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Regarding claim 6, Lakshman-Barzilai and Gai further discloses wherein the communicatively coupled remote device is a bandwidth broker or other generic policy server [see Gai, Figure 2, item 216]. The same motivation that was utilized in the combination of claim 5 applies equally as well to claim 6. By this rationale claim 6 is rejected.

- Regarding claim 7, Lakshman-Barzilai and Gai further discloses wherein the admission profile is available locally within the apparatus [see Lakshman, Col. 15, line 13]. By this rationale claim 7 is rejected.
- Regarding claim 8, Lakshman-Barzilai and Gai further discloses wherein the controller establishes an ingress profile in response to detecting an associated trigger event, wherein the ingress profile modifies the received data packet adhering to the filter criteria to denote a particular service level, in accordance with the admissions profile [see Barzilai, page 406, 2nd]. The same motivation that was utilized in the combination of claim 1 applies equally as well to claim 8. By this rationale claim 8 is rejected.
- Regarding claim 9, Lakshman-Barzilai and Gai further discloses wherein the controller removes ingress profiles when data packets adhering to the filter criteria are no longer received, liberating apparatus resources [see Barzilai, page 406, 2nd column, 4th paragraph]. The same motivation that was utilized in the combination of claims 1 and 8 applies equally as well to claim 9. By this rationale claim 9 is rejected.
- Regarding claim 10, Lakshman-Barzilai and Gai further discloses wherein the controller removes ingress profiles after a predetermined period of time, liberating apparatus resources [Barzilai, page 410, 1st column, 1st paragraph-3rd paragraph]. The

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same motivation that was utilized in the combination of claims 1 and 8 applies equally as well to claim 10. By this rationale claim 10 is rejected.

- Regarding claim 11, Lakshman-Barzilai and Gai further discloses wherein the controller removes at least one of the filters in accordance with a network administration policy [see Barzilai, page 410, 1st column, paragraph 1, Figure 9]. The same motivation that was utilized in the combination of claim 1 applies equally as well to claim 11. By this rationale claim 11 is rejected.
- 20. Regarding claim 13, Lakshman-Barzilai and Gai further discloses a method for controlling provisions of differentiated service levels in a data network [see Barzilai, abstract], the method comprising (a) installing a filter on a network edge device to provide a trigger notification upon detecting data packets adhering to filter criteria, [see rejection of claim 1, supra] (b) determining whether a received data packet satisfies the filter criteria, the filter criteria corresponding to an admission policy related to the differentiated service levels [see rejection of claim 1, supra]; and (c) issuing a command by a bandwidth broker to a controller of the network edge device to dynamically install or remove a filter in response to determining whether the received data packets satisfies the filter criteria [see rejection of claim 1, supra]. The same motivation that was utilized in the combination of claim 1 applies equally as well to claim 13. By this rationale claim 13 is rejected.
- 21. Regarding claim 14, Lakshman-Barzilai and Gai further discloses (d) marking the received data packets adhering to the filter criteria according to a subscribed service level (Barzilai teaches that the QOS manager tags the data path with a session handle

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to enable handling of data packets commensurate with their service requirements), [see Barzilai, page 398, 1st column, 1st paragraph]. The same motivation that was utilized in the combination of claims 1 and 13 applies equally as well to claim 14. By this rationale claim 14 is rejected.

- Regarding claim 16, Lakshman-Barzilai, Gai discloses wherein the marking of the received data packet includes setting a logic value of a bit in a Type of Service (ToS) field of a header of the data packet [see Gai, Col. 3, lines 1-32, Col. 16, lines 21-48 and Col. 20, lines 25-31]. The same motivation that was utilized in the combination of claim 5 applies equally as well to claim 16. By this rationale claim 16 is rejected.
- 23. Regarding claim 17, Lakshman-Barzilai and Gai further discloses (e) identifying and marking the received data packets with routing information in accordance with the subscribed service level [see rejection of claim 14, supra]. The same motivation that was utilized in the combination of claims 1, 13 and 14 applies equally as well to claim 17. By this rationale claim 17 is rejected.
- Regarding claim 18, Lakshman-Barzilai and Gai further discloses (f) placing the data packets in a proper format for transmission (Barzilai teaches TCP formats packets into a acceptable form for transmission to the network), [see Barzilai, page 407, 2nd column, 2nd paragraph]. The same motivation that was utilized in the combination of claims 1, 13, 14, and 17 applies equally as well to claim 18. By this rationale claim 18 is rejected.
- 25. Regarding claim 19, Lakshman-Barzilai, Gai discloses wherein the classifier marks a Type of Service (ToS) field of the received data packet to denote a level of

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service for transmission of the data packet [see Gai, Col. 3, lines 1-32, Col. 16, lines 21-48 and Col. 20, lines 25-31]. The same motivation that was utilized in the combination of claim 5 applies equally as well to claim 19. By this rationale claim 19 is rejected.

- Regarding claim 20, Lakshman-Barzilai and Gai further discloses wherein the controller further dynamically controls access to at least one classifier profile in accordance with the admission profile [see Barzilai, page 411, 2nd column, 2nd paragraph]. The same motivation that was utilized in the combination of claims 1 and 13 applies equally as well to claim 20. By this rationale claim 20 is rejected.
- 27. Regarding claim 21, Lakshman-Barzilai and Gai further discloses an apparatus adapted to facilitate communications between a client device and a remote device [see rejection of claim 1, supra], comprising: filter means for controlling access to different service levels [see rejection of claim 1, supra]; means for classifying and marking one of the service levels associated with the received data packet in response to satisfying filter criteria associates with the filter means [see rejection of claim 1, supra]; and control means for dynamically creating and removing a portion of the filter means based at least in part on an admission profile [see rejection of claim 1, supra]. The same motivation that was utilized in the combination of claim 1 applies equally as well to claim 21. By this rationale claim 21 is rejected.
- Regarding claim 22, Lakshman-Barzilai, Gai further discloses wherein the admissions profile is stored in a communicatively coupled remote device [see Gai, Col. 12, lines 25-50]. The same motivation that was utilized in the combination of claim 5 applies equally as well to claim 22. By this rationale claim 22 is rejected.

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- Regarding claim 23, Lakshman-Barzilai, Gai further discloses wherein the communicatively coupled remote device is a bandwidth broker or other generic policy server [see Gai, Figure 2, item 216]. The same motivation that was utilized in the combination of claim 5 applies equally as well to claim 23. By this rationale claim 23 is rejected.
- Regarding claim 24, Lakshman-Barzilai and Gai further discloses wherein the filter means comprises a plurality of filters [see rejection of claims 1 and 21, supra]. By this rationale claim 24 is rejected.
- Regarding claim 25, Lakshman-Barzilai and Gai further discloses wherein the control means removes at least one of the filters in accordance with a network administration policy [see Barzilai, page 400, 2nd column, 4th paragraph]. The same motivation that was utilized in the combination of claims 1 and 24 applies equally as well to claim 25. By this rationale claim 25 is rejected.
- Claims 12 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lakshman-Barzilai and Gai as applied to claims 1-11, 13, 14, and 16-25 above, and further in view of in view of what was well known to the ordinary artisan in the networking art at the time the invention was made.
- Regarding claims 12 and 26, Lakshman-Barzilai and Gai further discloses wherein the control means removes at least one of the filters based, at least in part, on time-of-day ((The inclusion of wherein the control means removes at least one of the filters based, at least in part, on time-of-day would have been obvious to one of ordinary

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skill in the networking art at the time the invention was made in view of the notoriously widely known and widely implementation of control means removes at least one of the filters based, at least in part, on time-of-day. The Examiner takes Official Notice (MPEP 2144.03) that "a network administrator having the capability to remove filters base on an expiration day or time of data is well known in the networking art at the time the invention. The Applicant is entitled to traverse the official notice according to MPEP 2144.03. However, MPEP 2144.03 further states, "See also In re Boon, 439 F.2d 724, 169 USPQ 231 (CCPA 1971) (a challenge to the taking of judicial notice must contain . adequate information or argument to create on its face a reasonable doubt regarding the circumstances justifying the judicial notice)." Specifically, In re Boon, 169 USPQ 231, 234 states "as we held in Ahlert, an applicant must be given the opportunity to challenge either the correctness of the fact asserted or the notoriety or repute of the reference cited in support of the assertion. We did not mean to imply by this statement that a bald challenge, with nothing more, would be all that was needed". Further 37 CFR 1.671(c)(3) states "Judicial notice means official notice". Thus, a traversal by the Applicant that is merely "a bald challenge, with nothing more" will be given little weight). By this rationale claims 12 and 26 are rejected.

Response to Arguments

Applicant's arguments filed 01/29/07 have been fully considered but they are not persuasive.

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Regarding claims 1-11, 13, 14, and 16-25 rejected under 35 U.S.C. 103(a) as 35. being unpatentable over Lakshman in view of Barzilai and in further view of Gai, Applicant traverses the rejection. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Applicant argues that Lakshman does not disclose dynamically creating/removing filters based on an admission profile of the admission policy. However, the incorporation of Barzilai was relied upon for this limitation. Applicant further asserts that Barzilai does not teach a filter being dynamically created/removed. However, Examiner submits that "the code of the packet filter is dynamically compiled" in Barzilai as stated by Applicant, and broadly reads on the dynamic creation and removal of a filter as claimed. The claim language does not require a specific mechanism for this aspect of the invention, such as a mechanism other than dynamic code generation to create or remove a filter. Applicant further asserts that Gai does not disclose dynamic filtering, and that "applying" is not the same as "creating" or "removing". Examiner submits that such an argument is based on semantics, as Gai clearly discloses the broad concept of "filtering", by applying policies and service treatments to traffic flows. Furthermore, Gai was not relied upon for the claimed "creating/removing" of filters, and such an argument is a piecemeal analysis of the references.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph R. Maniwang whose telephone number is (571) 272-3928. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William C. Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JM

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